PTO/SB/01 (03-01)

Approved for use through 10/31/2002 OMB 0651-0032

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DECLARATION FOR UTILITY OR	Attorney Docket Number		020798-002000	
O PATENT APPLICATION	First Named Inventor		Vandenameele-Lepla	
Declaration Submitted after Initial With Initial Filing (37 CFR 1.163) Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)	COMPLETE IF KNOWN			
	Application Number	09/9664	/966419	
	Filing Date	09/27/01		
	Group Art Unit			
	Examiner Name			

As a below named inventor, I hereby declare that:					
My residence, post office address, and citizenship are as stated below next to my name.					
	l, first and sole inventor (if of the subject matter which				
l	atus for Channel Esti		a patent is soug	nt on the invention	ended.
		· · · · · · · · · · · · · · · · · · ·			
the specification of which	(Title of	the Invention)			
is attached hereto					
OR					
F-7	09/27/01				
was filed on (MM/DD)//YYY) 00/21/01	as United States Ap	plication Number o	r PCT International	
Application Number 09/966419 and was amended on (MM/DD/YYYY) (if applicable).					
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.					
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT					
international filing date of the continuation-in-part application.					
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the					
United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or of any PCT international application having a filing date before that of the application on which priority is claimed.					
Prior Foreign Application		Foreign Filing Date	Priority	Certified	Copy Attached?
Number(s)	Country	(MM/DD/YYYY)	Not Claimed	YES	NO
		!			
•					
Additional foreign applicati	on numbers are listed on a sup	oplemental pnority data sheet	PTO/SB/02B attac	ched hereto	

[Page 1 of 2]

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DECLARATION — Utility or Design Patent Application

	mer Number r Code Label	20350	OR Correspon	dence address below
Name				
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Address				
City		Stat	te	ZIP
Country	Telephone			Fax
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
NAME OF SOLE OR FIRST INVENTOR	. A petition	on has been filed	for this unsigned invento	r
Vandenameele-Lepla Given Name Family Name or Surname				
Inventor's Signature Date				
Bertem Residence: City	State		Belgium Country	Belgium Citizenship
Baanakkerweg 3				
Mailing Address				
Bertem City	State	, , , , , , , , , , , , , , , , , , ,	3060 ZIP	Belgium COUNTRY
NAME OF SECOND INVENTOR: A petition has been filed for this unsigned inventor				
Given Name (first and middle [if any])		Family Nam or Surname		
Inventor's Signature				Date
Residence: City	State		Country	Citizenship
Mailing Address				
City	State		ZIP	COUNTRY
Additional inventors are being named	I on the supplem	nental Additional Inv	entor(s) sheet(s) PTO/SB/02	A attached hereto

Please type a plus sign (+) inside this box	\rightarrow $+$
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★ Total of 1 forms are submitted.

PTO/SB/81 (02-01) Approved for use through 10/31/2002. OMB 0651-0035

U.S Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 09/966419 09/27/01 Filing Date First Named Inventor Vandenameele-Lepla POWER OF ATTORNEY OR Method and Apparatus for Channel Title **AUTHORIZATION OF AGENT** Estimation NOV 3 0 2001 **Group Art Unit Examiner Name** 020798-002000 Attorney Docket Number I hereby appoint: Place Customer Practitioners at Customer Number 20350 Number Bar Code OR Label here Practitioner(s) named below: Name Registration Number ST as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all 4 m business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: ☐ The above-mentioned Customer Number. Practitioners at Customer Number Firm or Individual Name Address Address ZIP City State Country Telephone Fax I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name Signature Date 10 NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

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PTO/SB/96 (08-00)

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STATEMENT UNDER 37 CFR 3.73(b)			
Policant/Patent Owner: Vandenameele-Lepla, Patrick			
Spolication No./Patent No.: 09/966419 Filed/Issue Date: 09/27/01			
Entitled: METHOD AND APPARATUS FOR CHANNEL ESTIMATION			
Resonext Communications, Inc. , a corporation			
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)			
states that it is:			
1. the assignee of the entire right, title, and interest; or			
2. an assignee of an undivided part interest			
in the patent application/patent identified above by virtue of either:			
A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
OR			
B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:			
1. From: To :			
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
2. From:			
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
3. From: To :			
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
☐ Additional documents in the chain of title are listed on a supplemental sheet.			
Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]			
The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.			
Date Signature			
MORTEZA SAID) Typed or printed name			
CTO			
Title			

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ASSIGNMENT OF PATENT APPLICATION

SOLE

WHEREAS, Patrick Vandenameele of Baanakkerweg 3, 3060 Bertem, Belgium; hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:

METHOD AND APPARATUS FOR CHANNEL

ESTIMATION

Date(s) of execution of Declaration: 15/10/2004

Filing Date:

September 27, 2001

Application No.:

09/966,419; and

WHEREAS, Resonext Communications, Inc., a corporation of the state of Delaware, located at 1754 Technology Drive, Suite 200, San Jose, CA, 95110, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

SF 1277544 v1

Assignment Attorney Docket No.: 020798-002000US Page 2

IN TESTIMONY WHEREOF, Assign	nor has signed his/her name on the date indicated. Patrick Vandenameele-Lepla
)) ss.)	
on the basis of satisfactory evidence) to be the pers	efore me,, eele-Lepla, personally known to me (or proved to me on whose name is subscribed to the within instrument, and his/her authorized capacity, and that by his/her signature on which the person acted, executed the instrument.
WITNESS my hand and official seal.	
	NOTARY PUBLIC
My Commission Expires:	